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| APPLICATION NO. | FI | LING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|------------------------------|------------|------------|----------------------|---------------------|------------------|
| 10/623,074 | 07/18/2003 | | Oren V. Peterson | T9214.CON.CIP2 | 2684 |
| 20449 | 7590 | 08/05/2005 | | EXAMINER | |
| KARL R CANNON PO BOX 1909 | | | | LANGEL, WAYNE A | |
| SANDY, UT 84091 | | | | ART UNIT | PAPER NUMBER |
| - | | | | 1754 | |

DATE MAILED: 08/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding:

| | Application No. | Applicant(s) | |
|---|---|--|---|
| Office Action Summany | 10/623,074 | PETERSON, OREN V. | |
| Office Action Summary | Examiner | Art Unit | |
| | Wayne Langel | 1754 | _ |
| The MAILING DATE of this communication apperiod for Reply | opears on the cover sheet wit | th the correspondence address | |
| A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perior - Failure to reply within the set or extended period for reply will, by statu. Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b). | I. 1.136(a). In no event, however, may a reply within the statutory minimum of thirty d will apply and will expire SIX (6) MON tate, cause the application to become AB. | eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133). | |
| Status | | | |
| Responsive to communication(s) filed on 2a) ☐ This action is FINAL . 2b) ☐ Th 3) ☐ Since this application is in condition for allow closed in accordance with the practice under | is action is non-final. ance except for formal matte | | |
| Disposition of Claims | | | |
| Applicant may not request that any objection to th | awn from consideration. /or election requirement. ner. ccepted or b) □ objected to be drawing(s) be held in abeyan | ce. See 37 CFR 1.85(a). | |
| Replacement drawing sheet(s) including the corre | | | |
| Priority under 35 U.S.C. § 119 | | | |
| 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prince application from the International Bure * See the attached detailed Office action for a list | nts have been received. nts have been received in Apiority documents have been au (PCT Rule 17.2(a)). | pplication No received in this National Stage | |
| Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of References Cited (PTO-892) | | ummary (PTO-413))/Mail Date | |
| 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date | T | formal Patent Application (PTO-152) | |

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The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 87-91 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The "enabling " disclosure is not commensurate in scope with the subject matter encompassed by the claims, in that the specification does not enable one to produce hydrogen by percolating an effluent of hydrogen and carbon monoxide through fluidized beds of magnetite. In re Borkowski, 422 F.2d 904; 164 USPQ 642 (CCPA 1970). Applicant's argument, that the specification on page 44, line 1 to page 45, line 6, as well as the equations R7 to R9 in lines 10-12 of page 43 comply with the enablement requirement of 35 USC 112, first paragragh, is not convincing. It is clear from those portions of the specification that any hydrogen which is produced is a result of steam reacting with metallic iron in a metallic iron chamber 228 according to reaction R9, wherein the steam is generated in a heat extracting apparatus 224, rather than by simply percolating an effluent of hydrogen and carbon monoxide through magnetite.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 95 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant

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regards as the invention. It is indefinite as to whether the "second gas effluent" would necessarily be different from the effluent recited earlier. In line 6, "an" should be deleted and -- a first -- should be substituted therefor, and in line 8, the word -- first -- should be inserted before "effluent" to avoid this rejection.

Claim 92 is objected to as based on rejected parent claims, and would be allowed if written in independent form.

Claims 1-86, 93 and 94 are allowed.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Wayne Langel whose telephone number is 571-272-1353. The examiner can normally be reached on Mondays to Fridays from 8 to 3:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman, can be reached on 571-272-1358. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Wayre Langel
Primary Examiner
Art Unit 1754